



United States
Department of
Agriculture

Soil
Conservation
Service

Casper,
Wyoming



Wyoming Water Supply Outlook

May 1, 1986



IMPORTANT NOTICE INSIDE BACK COVER

Foreword

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

| STATE | ADDRESS |
|--------------------------|---|
| Alaska | 201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687 |
| Arizona | 201 East Indianola, Suite 200, Phoenix, AZ 85012 |
| Colorado (New Mexico) | 2490 West 26th Ave., Denver, CO 80211 |
| Idaho | 304 North 8th Street, Room 345, Boise, ID 83702 |
| Montana | 10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715 |
| Nevada | 50 South Virginia Street, Third Floor, Reno, NV 89505 |
| Oregon | 1220 Southwest 3rd Ave., 16th Floor, Portland, OR 97204 |
| Utah | 4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147 |
| Washington | 360 U.S. Court House, Spokane, WA 99201 |
| Wyoming | Federal Building, 100 East "B" Street, Casper, WY 82602 |

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Saskatchewan, and N.W.T. — The Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta, T3C 1A6.

Wyoming

Water Supply Outlook and

Federal-State-Private Cooperative Snow Surveys

Issued by

Wilson Scaling
Chief
Soil Conservation Service
Washington, D.C.

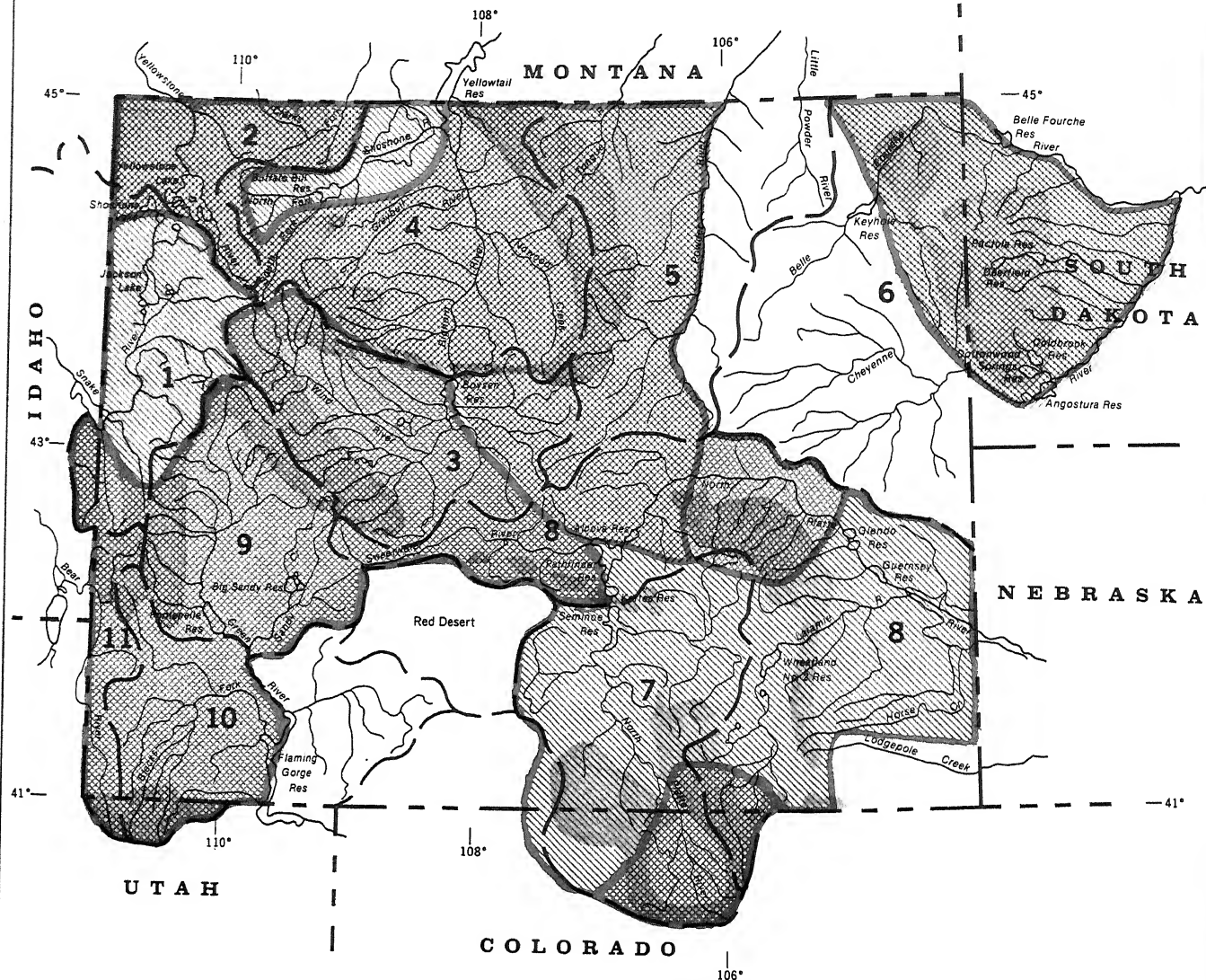
Released by

Frank S. Dickson
State Conservationist
Soil Conservation Service
Casper, Wyoming

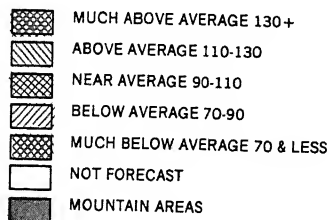
Prepared by

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Casper, Wyoming 82601

Programs and assistance
of Agriculture are available
color, sex, age, or race



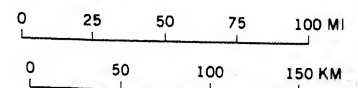
LEGEND
SPRING AND SUMMER PERIOD
(PERCENT OF AVERAGE)



RIVER BASINS

1. SNAKE
2. UPPER YELLOWSTONE AND MADISON
3. WIND
4. BIG HORN
5. POWDER AND TONGUE
6. BELLE FOURCHE AND CHEYENNE
7. UPPER NORTH PLATTE AND LITTLE SNAKE
8. LOWER NORTH PLATTE, SWEETWATER, AND LARAMIE
9. UPPER GREEN
10. LOWER GREEN
11. UPPER BEAR

STREAMFLOW PROSPECTS
WYOMING



SOURCE: Data compiled by SCS
 Field Personnel.

USDA-SCS-FORT WORTH, TEXAS 1985

JULY 1985 4-R-39346

FORMERLY 7-L-22029G

GENERAL OUTLOOK

SUMMARY:

WATER SUPPLYS TO MEET USERS NEEDS SHOULD BE ADEQUATE THIS SPRING AND SUMMER THROUGHOUT WYOMING. ONLY DEER AND LaPRELE CREEKS WILL EXPERIENCE BELOW NORMAL FLOWS. HIGH ELEVATION SNOWPACK OVER MUCH OF THE STATE IS ABOVE AVERAGE. RESERVOIR STORAGE IS LESS THAN AT THIS TIME LAST YEAR, BUT IS SLIGHTLY ABOVE AVERAGE. APRIL PRECIPITATION FOR MOST OF THE REPORTING STATIONS WAS ABOVE AVERAGE.

SNOWPACK:

Snowpack buildup throughout the state remains near average to much above average. Noted exceptions are the northeast facing mountains of the Laramie Mountains along the Deer Creek, Boxelder Creek and LaPrele Creek drainages, the upper portions of Crazy Woman Creek drainage on the east face of the Big Horns, and the Nowood River drainage on the west slopes of the Big Horns. These drainages average only about 83% to 89% of the usual snowpack accumulation. The upper Green River, Wind River and upper Laramie River drainages continue to be much above average, with some snow courses being as much as 79% above average. Some melting is starting to take place at some of the intermediate elevations. For the most part, snow at the lower elevation courses (7500 feet and below) is gone.

PRECIPITATION:

April is normally one of the heaviest snowfall months in Wyoming. Several large snowstorms did occur in a few areas.

Along the southwest corner north to Alta in the Green, Bear and Snake drainages, one-half to two-thirds of the days had precipitation. The snowstorm on the 12th dumped 10" at Bedford. Monthly averages were 50% to 200% above normal. The northwest corner was normal.

Low elevation precipitation in central areas was normal to 50% below normal, since snowfall totals were about one-half of normal. However, Dubois in the Wind River drainage was the exception (+170%) since a storm on the 9th dumped 10".

Monthly averages in the east were 50% to 150% above normal. In the northeast near Alva the greatest of water equivalent (5.58") occurred. In the southeast

a blizzard on the 3rd left about 15" of new snow at Albin.

Seasonal comparisons remained mostly above normal. The Green and Bear drainages were 50% to 100% above normal. Central and northwest areas were normal to 25% above normal, while the eastern part of the state was around 50% above normal.

RESERVOIRS:

Storage in major reservoirs is about 10% less than at this time last year, but is nearly 3% more than average. Current stored capacity statewide is about 57% of the total available. Several of the larger reservoirs have been drawn down in anticipation of above average snowmelt runoff.

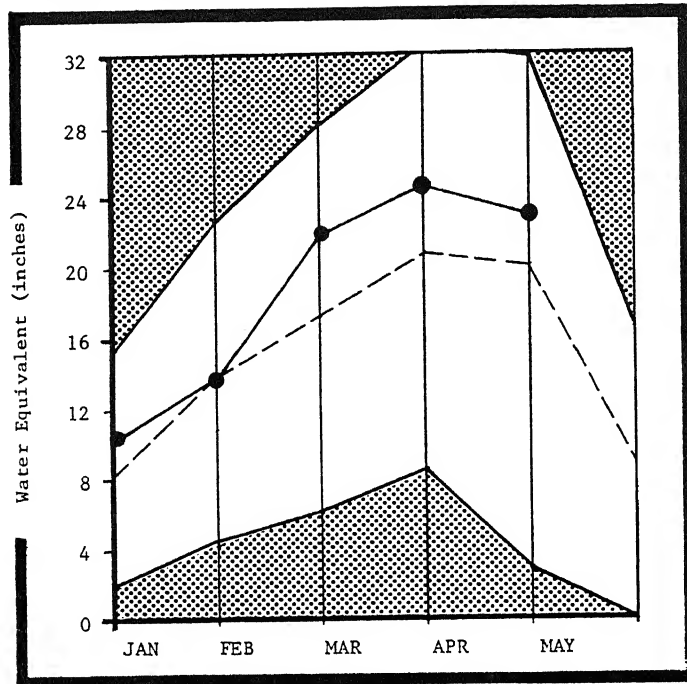
STREAMFLOW:

Streamflow prospects for spring and summer remain very bright for most of the state. Only Deer Creek and La Prele Creek, tributaries to the North Platte River in east-central Wyoming, are forecast to be less than average. These drainages are predicted to be only about 60% to 65% of normal. The Bear River, Green River, Wind River, upper North Platte River and upper Laramie River drainages are forecast to be much above average. These drainages are expected to be from 30% to nearly 100% above normal. The remainder of the streams in the state are forecast to be between 5% to 30% above normal. At this point water users should have adequate supplies this year.


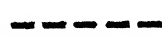


These forecasts are dependent upon average snowfall accumulations for the remaining portion of the snow season. The forecasts in this bulletin are a result of coordinated activity between the Soil Conservation Service and the National Weather Service in an effort to provide the best possible service to the water user.

SNAKE RIVER BASIN

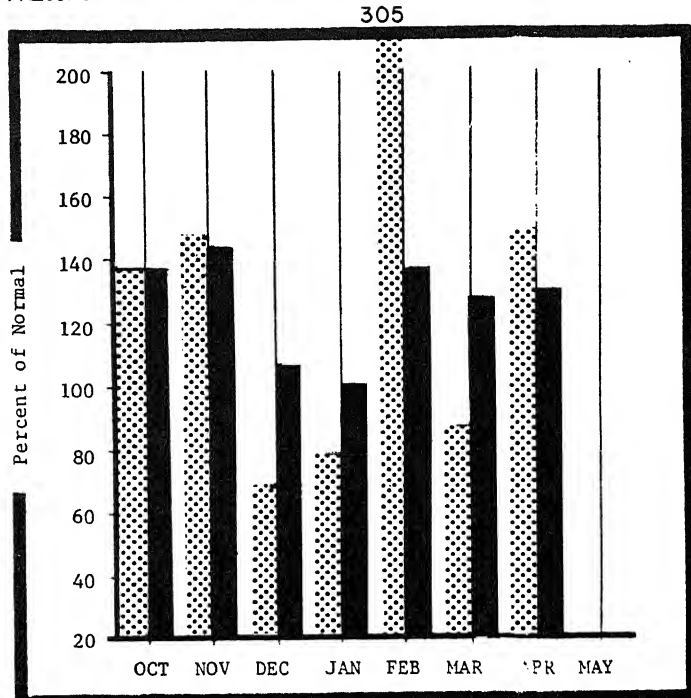
MOUNTAIN SNOWPACK*



*Based on selected stations

Maximum  Average 
 Minimum  Current 

PRECIPITATION*



*Based on selected stations

Monthly precipitation  Year to date precipitation 

WATER SUPPLY OUTLOOK:

Streamflow forecasts for this basin show that users can expect flows to be 12% to 20% above normal. Snowpack accumulation at the high elevations is nearly 22% above average, and nearly 81% above last year. Reservoir storage is only 48% of average mainly because of storage restrictions due to construction on Jackson Lake Dam. April precipitation was about 50% above normal, with the water year to date accumulation being 31% above normal.

For more information contact your local Soil Conservation Service office.

SNAKE RIVER BASIN

STREAMFLOW FORECASTS

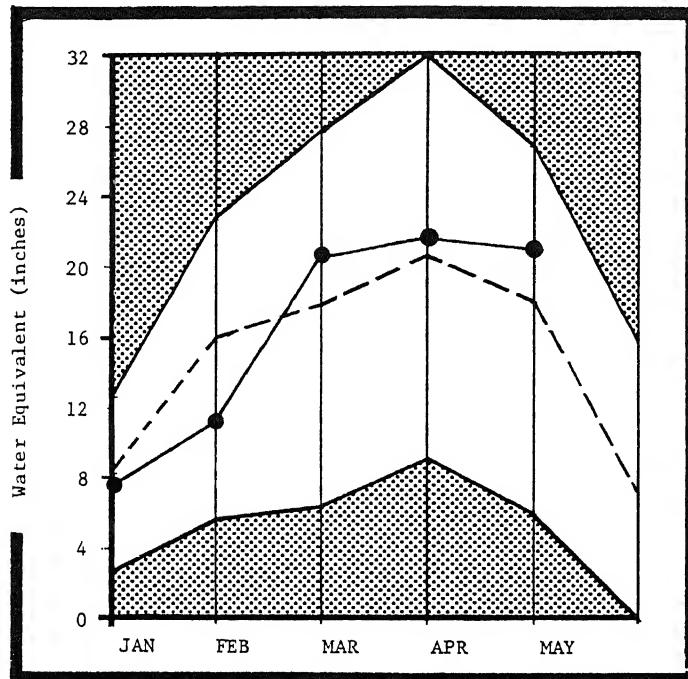
| FORECAST POINT | FORECAST PERIOD | 20 YR. AVE. (1000AF) | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVE.) | REAS. MAX. (% AVE.) | REAS. MIN. (% AVE.) | PEAK FLOW (CFS) | PEAK DATE | LOW FLOW (CFS) | LOW DATE |
|-------------------------------|-----------------|----------------------|------------------------|------------------------|---------------------|---------------------|-----------------|-----------|----------------|----------|
| SNAKE RIVER near Moran * | APR-SEP | 880.0 | 1000.0 | 113 | 123 | 105 | | | | |
| SNAKE RIVER above Palisades * | APR-SEP | 2730.0 | 3170.0 | 116 | 125 | 107 | | | | |
| SNAKE RIVER at Heise, ID * | APR-SEP | 4066.0 | 5010.0 | 123 | 133 | 113 | | | | |
| PACIFIC CREEK at Moran | APR-SEP | 174.0 | 210.0 | 120 | 139 | 103 | | | | |
| GREYS RIVER above Palisades | APR-SEP | 393.0 | 510.0 | 129 | 148 | 112 | | | | |
| SALT RIVER near Etna | APR-SEP | 394.0 | 515.0 | 130 | 158 | 97 | | | | |
| PALISADES RESERVOIR Inflow * | APR-SEP | 3793.0 | 4540.0 | 119 | 129 | 111 | | | | |
| SHIFT CREEK near Afton | MAY-SEP | 46.0 | 46.0 | 100 | 117 | 83 | | | | |

| RESERVOIR STORAGE (1000AF) | | | | | WATERSHED SNOWPACK ANALYSIS | | | |
|----------------------------|------------------|-----------------------|-----------|-----------|-----------------------------|--------------------------|-------------------|-------------------------------|
| RESERVOIR | USEABLE CAPACITY | XX USEABLE STORAGE XX | THIS YEAR | LAST YEAR | AVE. | WATERSHED | NO. COURSES AVE.D | THIS YEAR AS % LAST YR. AVERA |
| GRASSY LAKE | 15.1 | 14.0 | 19.6 | 11.0 | | SNAKE above JACKSON LAKE | 2 | 141 |
| JACKSON LAKE | 624.4 | 93.9 | 75.2 | 517.6 | | PACIFIC CREEK | 0 | 0 |
| PALISADES | 1200.0 | 495.3 | 1147.6 | 718.5 | | GROS VENTRE RIVER | 3 | 204 |
| | | | | | | HOBACK RIVER | 6 | 184 |
| | | | | | | GREYS RIVER | 2 | 189 |
| | | | | | | SALT RIVER | 4 | 402 |
| | | | | | | SNAKE above PALISADES | 14 | 184 |





*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

UPPER YELLOWSTONE AND MADISON RIVER BASINS

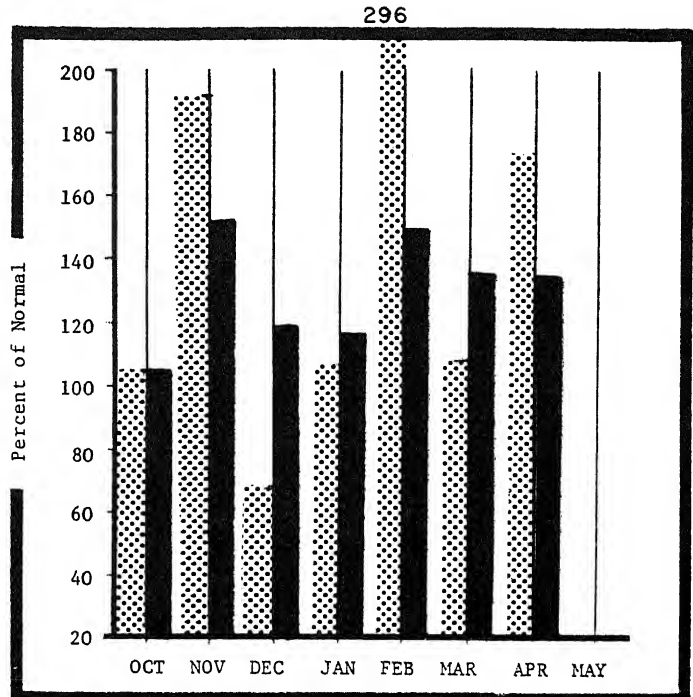
MOUNTAIN SNOWPACK*



*Based on selected stations

Maximum  Average 
 Minimum  Current 

PRECIPITATION*



*Based on selected stations

Monthly precipitation  Year to date precipitation 

WATER SUPPLY OUTLOOK:

Snowpack accumulation in the basin is slightly above average, however, it is about 52% greater than last year. Streamflows are forecast to be nearly normal. Reservoir capacity is about 77% of total available capacity, and is nearly 21% above normal. Precipitation during the month was 75% above average.

For more information contact your local Soil Conservation Service office.

UPPER YELLOWSTONE and MADISON RIVER BASINS

STREAMFLOW FORECASTS

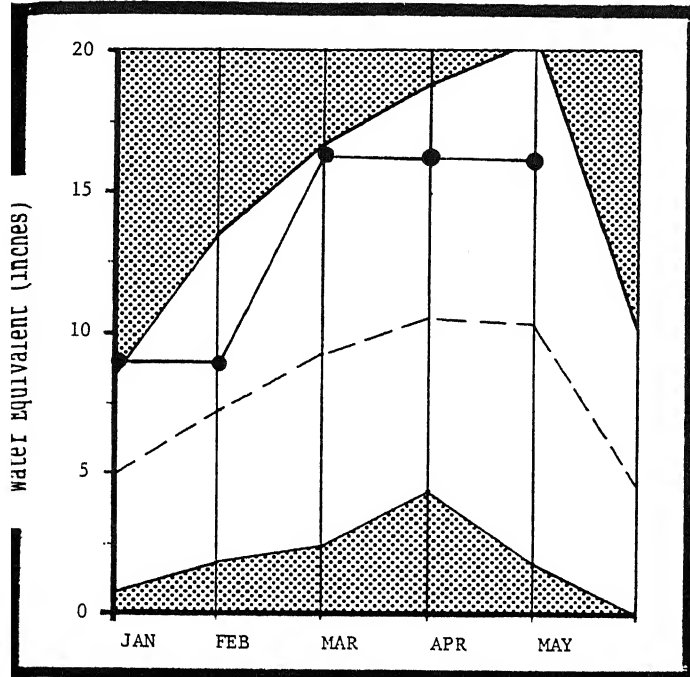
| FORECAST POINT | FORECAST PERIOD | 20 YR. AVE. (1000AF) | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVE.) | REAS. MAX. (% AVE.) | REAS. MIN. (% AVE.) | PEAK FLOW (CFS) | PEAK DATE | LOW FLOW (CFS) | LOW DATE |
|-----------------------------------|-----------------|----------------------|------------------------|------------------------|---------------------|---------------------|-----------------|-----------|----------------|----------|
| YELLOWSTONE RIVER at Lake Outlet | APR-SEP | 826.0 | 900.0 | 108 | 121 | 97 | | | | |
| YELLOWSTONE RIVER at Corwin Spgs. | MAY-SEP | 1944.0 | 1820.0 | 93 | 106 | 82 | | | | |
| YELLOWSTONE RIVER near Livingston | MAY-SEP | 2269.0 | 2100.0 | 92 | 105 | 81 | | | | |
| MADISON RIVER near Grayling, MT x | MAY-SEP | 440.0 | 470.0 | 106 | 119 | 95 | | | | |

| RESERVOIR STORAGE (1000AF) | | | | | WATERSHED SNOWPACK ANALYSIS | | |
|----------------------------|------------------|------------------------------|------------------------------|-------------------------|-----------------------------|-------------------|-------------------------------|
| RESERVOIR | USEABLE CAPACITY | xx USEABLE STORAGE THIS YEAR | xx USEABLE STORAGE LAST YEAR | xx USEABLE STORAGE AVE. | WATERSHED | NO. COURSES AVE.D | THIS YEAR AS % LAST YR. AVERA |
| ENNIS LAKE | 41.0 | 33.0 | 30.3 | 36.3 | UPPER MADISON RIVER | 9 | 145 108 |
| HEBGEN LAKE | 377.5 | 289.3 | 289.6 | 229.7 | CLARKS FORK | 20 | 158 98 |
| | | | | | UPPER YELLOWSTONE RIVER | 12 | 179 102 |





*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

WIND RIVER BASIN

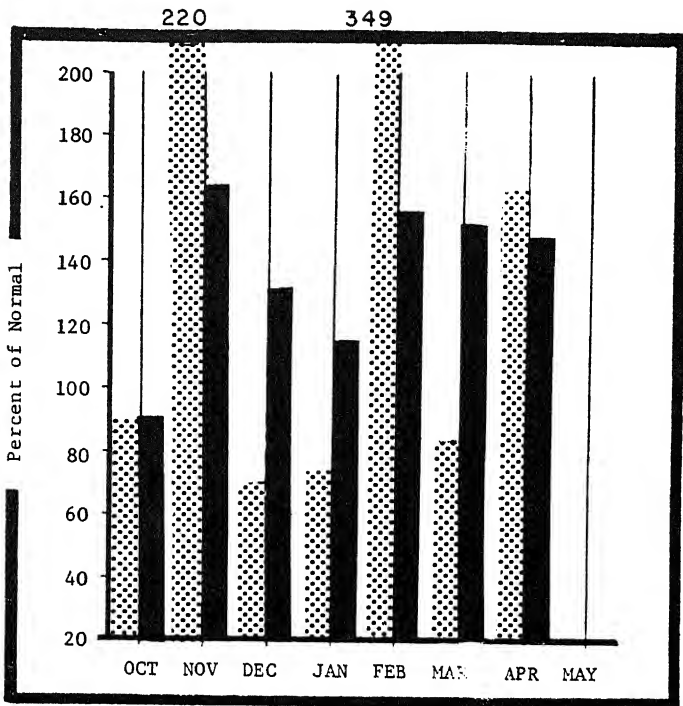
MOUNTAIN SNOWPACK*



*Based on selected stations

Maximum  Average 
 Minimum  Current 

PRECIPITATION*



*Based on selected stations

Monthly precipitation  Year to date precipitation 

WATER SUPPLY OUTLOOK:

Water users in this basin can expect streamflows that will be much above average. Flows are forecast to be as much as 41% above normal. Snowpack accumulation continue to be much above normal. Snowcourse reading show that the snowpack is 40% above average, and nearly 134% ahead of last years accumulation. April precipitation was above average by nearly 62%. Reservoir storage currently is 62% above average and nearly 47% greater than last year at this time. Much of the low elevation snow in this basin is gone.

For more information contact your local Soil Conservation Service office.

WIND RIVER BASIN

STREAMFLOW FORECASTS

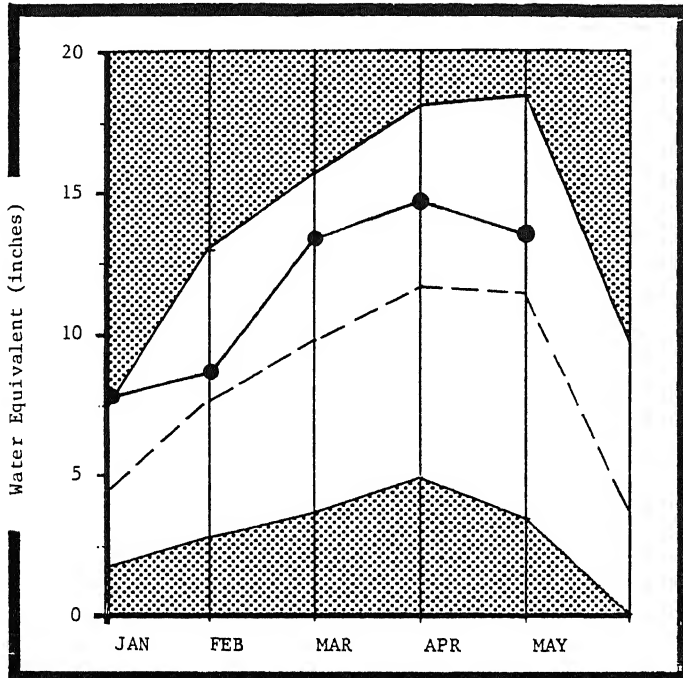
| FORECAST POINT | FORECAST PERIOD | 20 YR. AVE. (1000AF) | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVE.) | REAS. MAX. (% AVE.) | REAS. MIN. (% AVE.) | PEAK FLOW (CFS) | PEAK DATE | LOW FLOW (CFS) | LOW DATE |
|------------------------------------|-----------------|----------------------|------------------------|------------------------|---------------------|---------------------|-----------------|-----------|----------------|----------|
| WIND RIVER near Dubois | APR-SEP | 106.0 | 140.0 | 132 | 150 | 114 | | | | |
| WIND RIVER at Riverton * | APR-SEP | 678.0 | 960.0 | 141 | 164 | 120 | | | | |
| WIND RIVER below Boysen * | APR-SEP | 1163.0 | 1650.0 | 141 | 162 | 122 | | | | |
| BULL LAKE CREEK near Lenore * | APR-SEP | 188.0 | 250.0 | 132 | 153 | 113 | | | | |
| LITTLE POPO AGIE RIVER near Lander | APR-SEP | 53.0 | 75.2 | 141 | 166 | 117 | | | | |

| RESERVOIR STORAGE (1000AF) | | | | | WATERSHED SNOWPACK ANALYSIS | | |
|----------------------------|------------------|---------------------------|---------------------------|----------------------|-----------------------------|-------------------|---------------------------|
| RESERVOIR | USEABLE CAPACITY | USEABLE STORAGE THIS YEAR | USEABLE STORAGE LAST YEAR | USEABLE STORAGE AVE. | WATERSHED | NO. COURSES AVE.D | THIS YEAR AS LAST YR. AVE |
| BULL LAKE | 151.1 | 52.0 | 80.1 | 79.8 | UPPER WIND RIVER | 11 | 171 126 |
| BOYSEN | 549.9 | 300.5 | 291.0 | 250.1 | WIND above RIVERTON | 18 | 209 134 |
| PILOT BUTTE | 31.6 | 25.2 | 22.0 | 26.7 | POPO AGIE | 4 | 330 141 |
| | | | | | WIND above BOYSEN | 22 | 226 133 |

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

BIGHORN RIVER BASIN

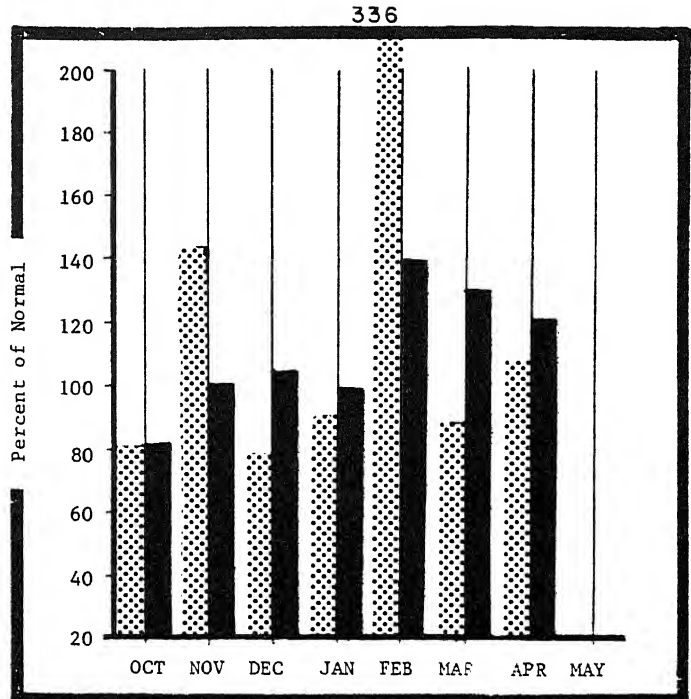
MOUNTAIN SNOWPACK*



*Based on selected stations

Maximum Average Minimum Current

PRECIPITATION*



*Based on selected stations

Monthly precipitation Year to date precipitation

WATER SUPPLY OUTLOOK:

Streamflow forecasts for this basin are varied. Most of the basin water users can expect near to slightly above average flows. Users along the Shoshone River can expect flows as much as 18% above normal this spring and summer. Nowood River water users can expect below average streamflows. The snowpack is slightly above normal and is considerably greater than last year at this time. Reservoir storage is above average by 48%. April precipitation amounts were about 13% more than normal.

For more information contact your local Soil Conservation Service office.

BIGHORN RIVER BASIN

STREAMFLOW FORECASTS

| FORECAST POINT | FORECAST PERIOD | 20 YR. AVE. (1000AF) | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVE.) | REAS. MAX. (% AVE.) | REAS. MIN. (% AVE.) | PEAK FLOW (CFS) | PEAK DATE | LOW FLOW (CFS) | LOW DATE |
|-----------------------------------|-----------------|----------------------|------------------------|------------------------|---------------------|---------------------|-----------------|-----------|----------------|----------|
| WIND RIVER below Boysen x | APR-SEP | 1163.0 | 1650.0 | 141 | 162 | 122 | | | | |
| SHELL CREEK near Shell | APR-SEP | 78.0 | 78.0 | 100 | 135 | 76 | | | | |
| GREYBULL RIVER at Meeteetse | APR-SEP | 215.0 | 230.0 | 106 | 127 | 87 | | | | |
| SHOSHONE RIVER blw Buffalo Bill x | APR-SEP | 845.0 | 1000.0 | 118 | 134 | 100 | | | | |
| CLARKS FORK near Belfry | MAY-SEP | 606.0 | 667.0 | 110 | 129 | 91 | | | | |
| SOUTH FORK SHOSHONE near Valley | APR-SEP | 278.0 | 300.0 | 107 | 128 | 88 | | | | |
| NOWOOD RIVER near Tensleep | MAR-SEP | 71.0 | 70.0 | 98 | 118 | 79 | | | | |

Water Equivalent (inches)

| RESERVOIR STORAGE (1000AF) | | | | | WATERSHED SNOWPACK ANALYSIS | | |
|----------------------------|------------------|---------------------------|---------------------------|----------------------|-----------------------------|-------------------|------------------------------|
| RESERVOIR | USEABLE CAPACITY | USEABLE STORAGE THIS YEAR | USEABLE STORAGE LAST YEAR | USEABLE STORAGE AVE. | WATERSHED | NO. COURSES AVE.D | THIS YEAR AS % LAST YR. AVER |
| BOYSEN | 549.9 | 500.5 | 291.0 | 250.1 | SHOSHONE RIVER | 8 | 445 123 |
| BUFFALO BILL | 373.1 | 293.7 | 213.0 | 133.2 | NOWOOD RIVER | 5 | 177 89 |
| BIGHORN LAKE | 1356.0 | 709.1 | 851.8 | 633.1 | GREYBULL RIVER | 4 | 262 129 |
| | | | | | SHELL CREEK | 7 | 154 187 |
| | | | | | BIGHORN (Boysen-Bighorn) | 31 | 209 112 |

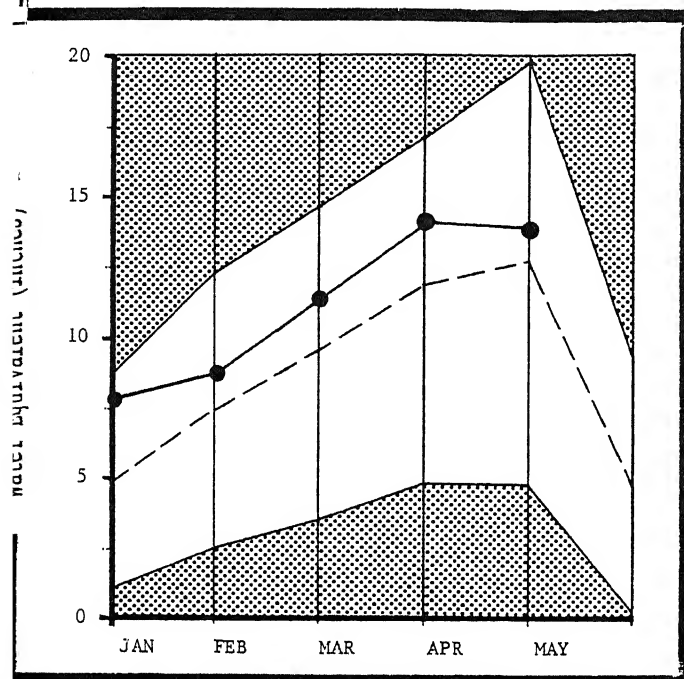
*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

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POWDER AND TONGUE RIVER BASINS

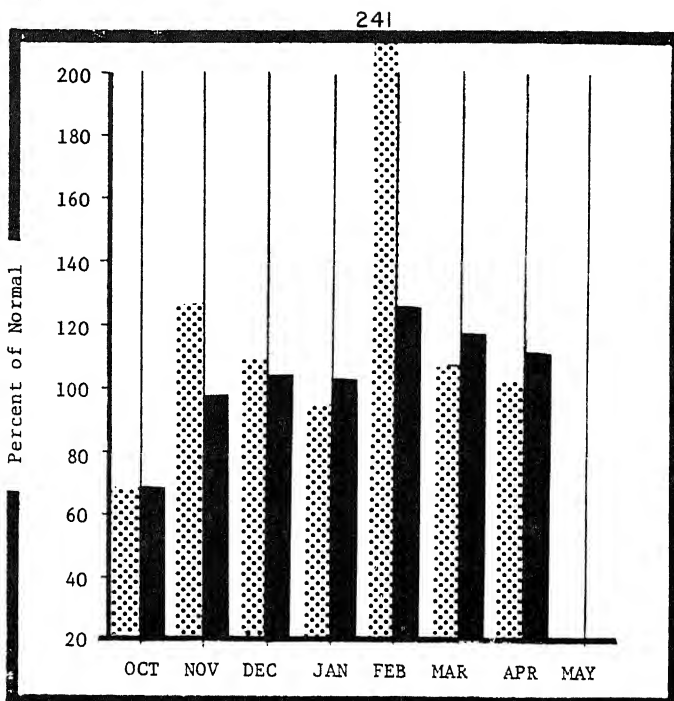
MOUNTAIN SNOWPACK*



*Based on selected stations

Maximum  Average 
 Minimum  Current 

PRECIPITATION*



*Based on selected stations

Monthly precipitation  Year to date precipitation 

WATER SUPPLY OUTLOOK:

Snowpack accumulation is just slightly above normal. However, when compared to last year, the snowpack is nearly 77% greater. Streamflows will vary between slightly below average to slightly above average. The upper drainage of Crazy Woman Creek is expected to flow about 7% below average, while most of the rest of the basin will be about 5% above average. Storage reservoir amounts are about 29% below average. Precipitation during April was near normal.

For more information contact your local Soil Conservation Service office.

POWDER and TONGUE RIVER BASINS

STREAMFLOW FORECASTS

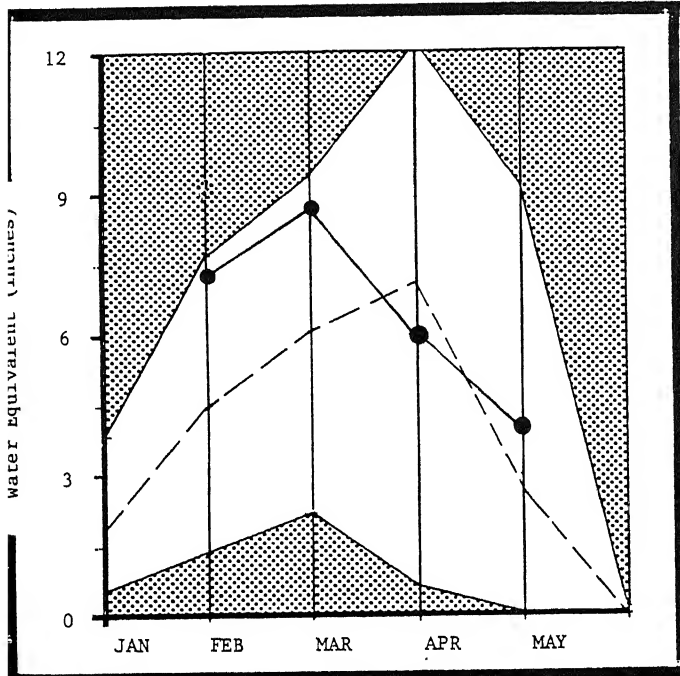
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|---------------------------------|-----------------|----------------------|------------------------|------------------------|---------------------|---------------------|-----------------|-----------|---------------|
| TONGUE RIVER near Dayton * | APR-SEP | 123.0 | 115.0 | 93 | 119 | 68 | | | |
| MIDDLE FORK POWDER near Barnum | APR-SEP | 21.6 | 21.5 | 99 | 130 | 69 | | | |
| NORTH FORK POWDER near Hazelton | APR-SEP | 10.6 | 11.1 | 104 | 132 | 75 | | | |
| CLEAR CREEK near Buffalo | APR-SEP | 40.0 | 42.5 | 106 | 138 | 78 | | | |
| ROCK CREEK near Buffalo | APR-SEP | 25.4 | 26.5 | 104 | 134 | 75 | | | |
| PINEY CREEK at Kearny | APR-SEP | 54.8 | 57.5 | 104 | 135 | 75 | | | |
| LITTLE BIGHORN at Hardin, MT | MAY-SEP | 157.0 | 213.0 | 135 | 194 | 91 | | | |

| RESERVOIR STORAGE (1000AF) | | | | | WATERSHED SNOWPACK ANALYSIS | | |
|----------------------------|------------------|-----------|-----------|------|-----------------------------|-------------------|---------------------|
| RESERVOIR | USEABLE CAPACITY | THIS YEAR | LAST YEAR | AVE. | WATERSHED | NO. COURSES AVE.D | THIS YEAR LAST YEAR |
| TONGUE RIVER | 68.0 | 28.3 | 36.4 | 40.0 | UPPER TONGUE RIVER | 12 | 180 |
| | | | | | GOOSE CREEK | 6 | 170 |
| | | | | | CLEAR CREEK | 3 | 0 |
| | | | | | CRAZY WOMAN CREEK | 3 | 215 |
| | | | | | POWDER RIVER | 27 | 166 |





*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

BELLE FOURCHE AND CHEYENNE RIVER BASINS

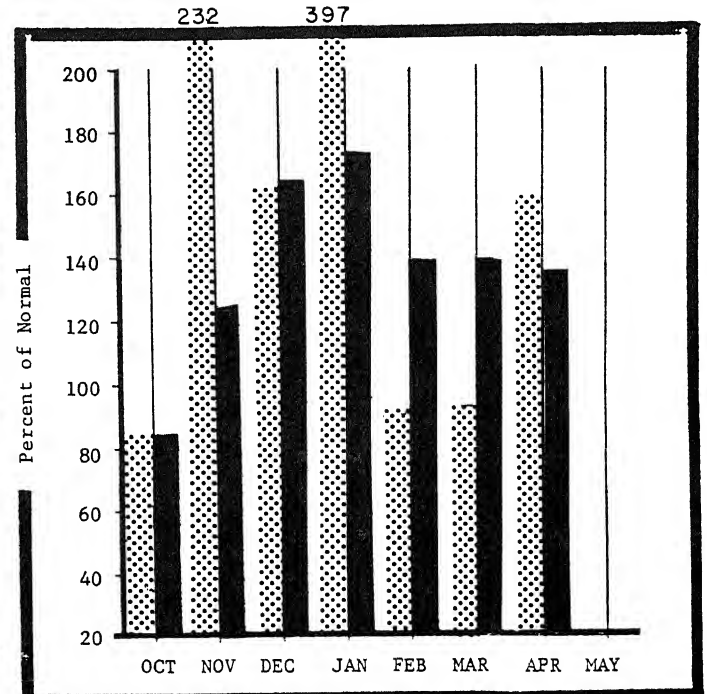
MOUNTAIN SNOWPACK*



*Based on selected stations

Maximum  Average 
Minimum  Current 

PRECIPITATION*



*Based on selected stations

Monthly precipitation  Year to date precipitation 

WATER SUPPLY OUTLOOK:

Water users can expect near normal streamflows this spring and summer. Snowpack accumulation is above normal for the basin. Stored water in
 5% above normal and nearly 15% greater year. April precipitation was 60% with the water year to date accumulation 35% above average.

For more information contact your local Soil Conservation Service office.

BELLE FOURCHE and CHEYENNE RIVER BASINS

STREAMFLOW FORECASTS

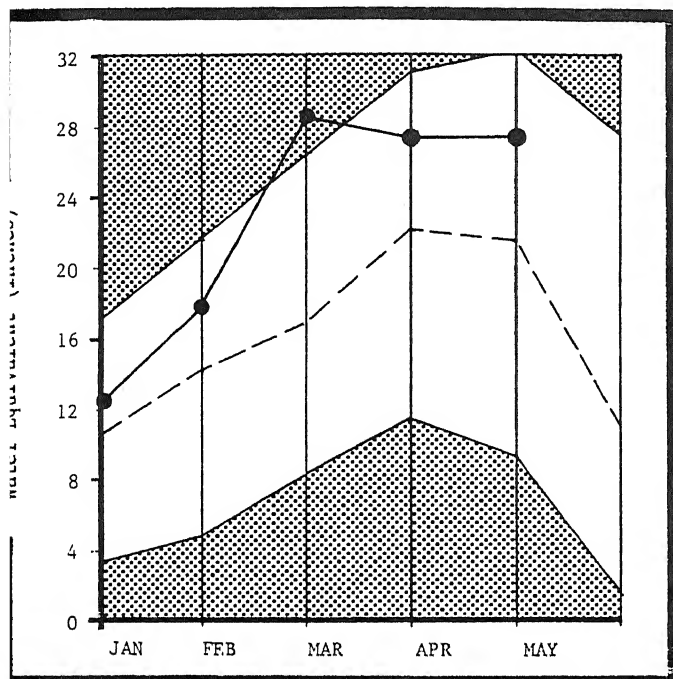
| FORECAST POINT | FORECAST PERIOD | 20 YR. AVE. (1000AF) | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVE.) | REAS. MAX. (% AVE.) | REAS. MIN. (% AVE.) | PEAK FLOW (CFS) | PEAK DATE | LOW FLOW (CFS) |
|------------------------------------|--------------------|----------------------------|------------------------------|------------------------------|---------------------------|---------------------------|-----------------------|--------------|----------------------|
| -No forecasts issued in this area- | | | | | | | | | |

| RESERVOIR STORAGE (1000AF) | | | | | WATERSHED SNOWPACK ANALYSIS | | |
|-------------------------------|---------------------|--------------------|---------------------------------|------------|-----------------------------|-------------------------|-----------------------|
| RESERVOIR | USEABLE CAPACITY | XX THIS YEAR | USEABLE STORAGE LAST YEAR | XX AVE. | WATERSHED | NO. COURSES AVE.D | THIS YEAR LAST YR. |
| ANGOSTURA | 86.2 | 124.4 | 63.0 | 77.0 | BELLE FOURCHE | 2 | 0 |
| BELLE FOURCHE | 185.2 | 122.2 | 168.4 | 157.2 | | | |
| DEERFIELD | 15.1 | 15.3 | 15.0 | 14.7 | | | |
| KEYHOLE | 190.4 | 67.8 | 74.5 | 129.3 | | | |
| PACTOLA | 55.0 | 49.0 | 55.0 | 52.2 | | | |
| SHADEHILL | 81.5 | 143.4 | 78.0 | 66.8 | | | |

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

UPPER NORTH PLATTE AND LITTLE SNAKE RIVER BASINS

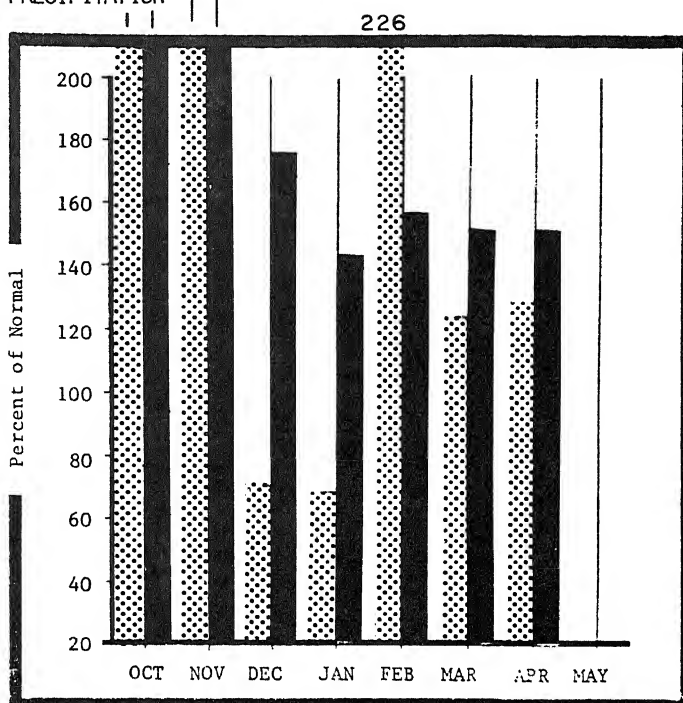
MOUNTAIN SNOWPACK*



*Based on selected stations

Maximum Average Minimum Current

PRECIPITATION*



*Based on selected stations

Monthly precipitation Year to date precipitation

WATER SUPPLY OUTLOOK:

Streamflow forecasts for the upper North Platte River drainage shows that water users can expect flows to be about 33% above average. The Little Snake River water users can expect flows to be about 20% above average. Snowpack accumulation is about 18% above normal and nearly 27% greater than last year. Precipitation during April was about 29% above average, with the year to date accumulation being 50% above average. Reservoir storage is only about one-half of last year, but is nearly 36% above normal.

For more information contact your local Soil Conservation Service office.

UPPER NORTH PLATTE and LITTLE SNAKE RIVER BASINS

STREAMFLOW FORECASTS

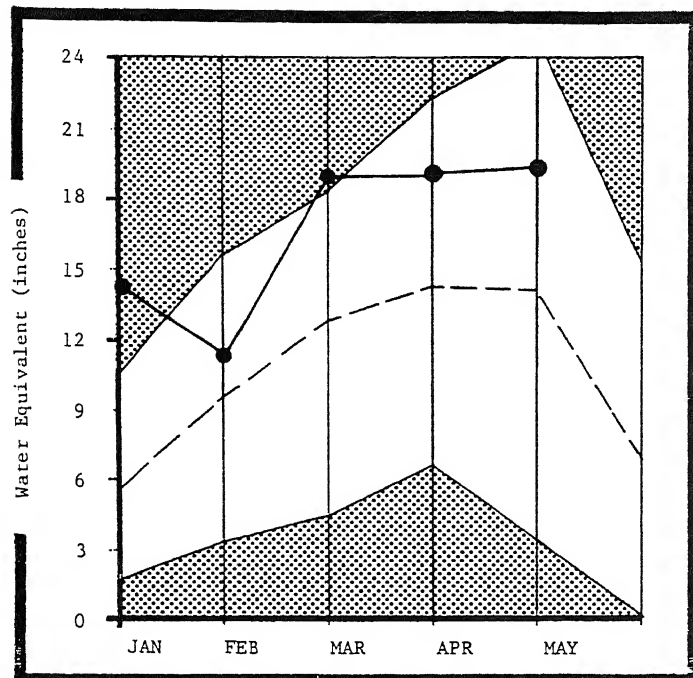
| FORECAST POINT | FORECAST PERIOD | 20 YR. AVE. (1000AF) | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVE.) | REAS. MAX. (% AVE.) | REAS. MIN. (% AVE.) | PEAK FLOW (CFS) | PEAK DATE | LOW FLOW (CFS) |
|-----------------------------------|-----------------|----------------------|------------------------|------------------------|---------------------|---------------------|-----------------|-----------|----------------|
| NORTH PLATTE RIVER near Northgate | APR-SEP | 262.0 | 350.0 | 133 | 153 | 114 | | | |
| NORTH PLATTE RIVER near Sinclair | APR-SEP | 710.0 | 839.0 | 118 | 134 | 108 | | | |
| ENCAMPMENT RIVER near Encampment | APR-SEP | 156.0 | 200.0 | 128 | 148 | 108 | | | |
| ROCK CREEK near Arlington | APR-SEP | 57.6 | 73.0 | 126 | 148 | 106 | | | |
| LITTLE SNAKE RIVER near Dixon * | APR-SEP | 320.0 | 390.0 | 121 | 147 | 97 | | | |
| LITTLE SNAKE near Slater, CO * | APR-SEP | 158.0 | 205.0 | 129 | 155 | 105 | | | |

| RESERVOIR STORAGE (1000AF) | | | | | WATERSHED SNOWPACK ANALYSIS | | | |
|----------------------------|------------------|-------------------|-------------------|--------------|-----------------------------|-------------------|-----------------------|------|
| RESERVOIR | USEABLE CAPACITY | USEABLE THIS YEAR | USEABLE LAST YEAR | USEABLE AVE. | WATERSHED | NO. COURSES AVE.D | THIS YEAR AS LAST YR. | AVE. |
| SEMINOE | 1017.3 | 488.5 | 842.0 | 358.2 | UPPER NORTH PLATTE | 13 | 128 | 11 |
| | | | | | ENCAMPMENT RIVER | 3 | 137 | 12 |
| | | | | | BRUSH CREEK | 3 | 125 | 11 |
| | | | | | MEDICINE BOW & ROCK CREEK | 3 | 132 | 11 |
| | | | | | N. PLATTE above SEMINOE | 20 | 148 | 12 |
| | | | | | UPPER LITTLE SNAKE RIVER | 2 | 109 | 10 |
| | | | | | SAVERY CREEK | 2 | 131 | 11 |

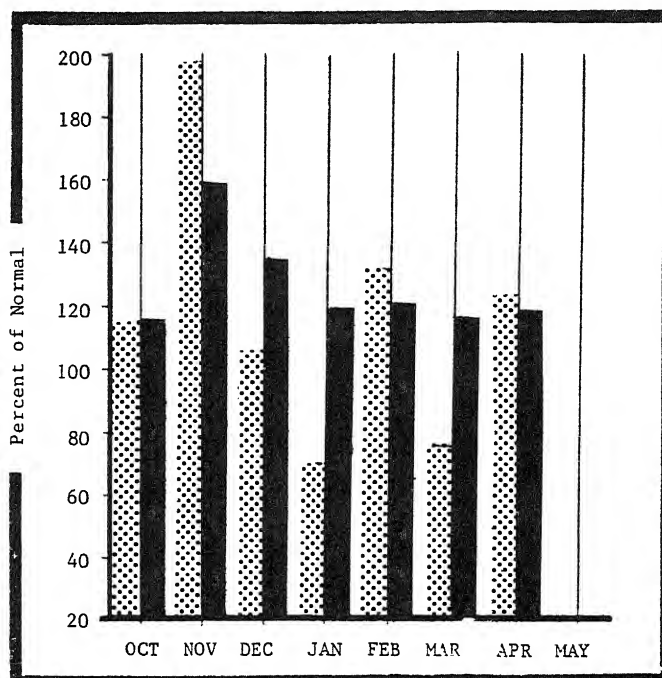
*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

LOWER NORTH PLATTE, SWEETWATER, AND LARAMIE RIVER BASINS





MOUNTAIN SNOWPACK*



PRECIPITATION*



*Based on selected stations

Maximum  Average 
 Minimum  Current 

*Based on selected stations

Monthly precipitation  Year to date precipitation 

WATER SUPPLY OUTLOOK:

Streamflow forecasts for Deer Creek and LaPrele Creek are the only dark spots on an otherwise bright picture for this basin. These creeks are expected to flow only about 60% of normal this spring and summer.

The remainder of the basin is expected to have flows ranging from 20% to 40% above normal. The snowpack is about 29% above average for most of the basin. Storage in basin reservoirs is about the same as last year, and is nearly 27% above average. Precipitation for the month was above normal.

For more information contact your local Soil Conservation Service office.

LOWER NORTH PLATTE, SWEETWATER, and LARAMIE RIVER BASINS

STREAMFLOW FORECASTS

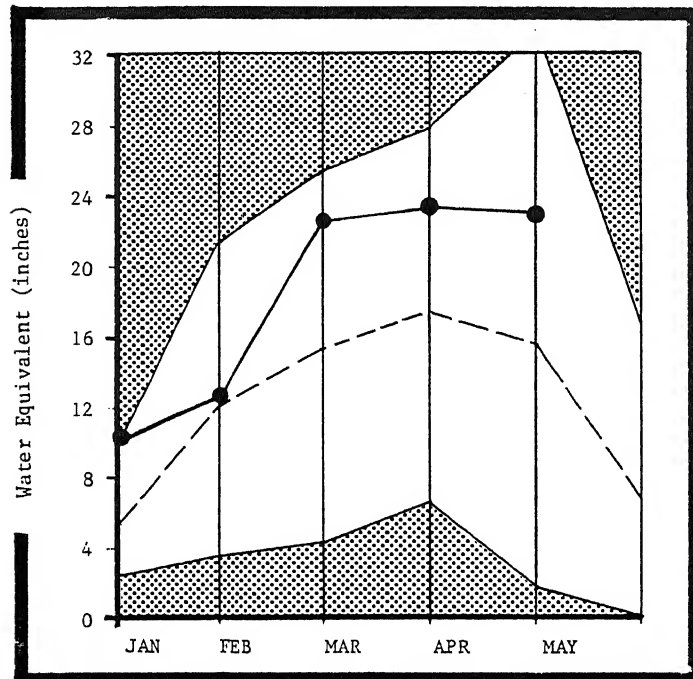
| FORECAST POINT | FORECAST PERIOD | 20 YR. AVE. (1000AF) | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVE.) | REAS. MAX. (% AVE.) | REAS. MIN. (% AVE.) | PEAK FLOW (CFS) | PEAK DATE | LOW FLOW (CFS) |
|------------------------------------|-----------------|----------------------|------------------------|------------------------|---------------------|---------------------|-----------------|-----------|----------------|
| NORTH PLATTE RIVER near Sinclair | APR-SEP | 710.0 | 839.0 | 118 | 134 | 108 | | | |
| SWEETWATER RIVER near Alcova | APR-SEP | 73.7 | 129.0 | 175 | 212 | 145 | | | |
| DEER CREEK at Glenrock | APR-SEP | 51.8 | 31.8 | 61 | 104 | 19 | | | |
| LaPRELE CREEK above Reservoir | APR-SEP | 33.7 | 20.5 | 60 | 104 | 21 | | | |
| NORTH PLATTE RIVER blw Glendo x | APR-SEP | 973.0 | 1675.0 | 110 | 136 | 95 | | | |
| NORTH PLATTE R. blw Guernsey x | APR-SEP | 1001.0 | 1120.0 | 111 | 137 | 96 | | | |
| LARAMIE RIVER near Woods x | APR-SEP | 132.0 | 180.0 | 136 | 161 | 112 | | | |
| LITTLE LARAMIE RIVER near Fillmore | APR-SEP | 65.1 | 80.0 | 122 | 147 | 98 | | | |

| RESERVOIR STORAGE (1000AF) | | | | | WATERSHED SNOWPACK ANALYSIS | | | |
|----------------------------|------------------|------------------------------|-----------|-------|-----------------------------|-------------------|-----------------------|---------|
| RESERVOIR | USEABLE CAPACITY | xx USEABLE STORAGE THIS YEAR | LAST YEAR | AVE. | WATERSHED | NO. COURSES AVE.D | THIS YEAR AS LAST YR. | AS AVE. |
| ALCOVA | 184.3 | 180.7 | 181.6 | 180.5 | SWEETWATER | 4 | 401 | 171 |
| GLENDO | 789.4 | 513.0 | 475.0 | 445.9 | DEER & LaPRELE CREEKS | 2 | 204 | 83 |
| GUERNSEY | 45.6 | 44.9 | 31.0 | 34.5 | N. PLATTE above LARAMIE | 14 | 137 | 111 |
| PATHFINDER | 1016.5 | 973.7 | 875.0 | 587.7 | LITTLE LARAMIE RIVER | 4 | 166 | 108 |
| SEMINOE | 1017.3 | 488.5 | 842.0 | 358.2 | UPPER LARAMIE RIVER | 8 | 150 | 132 |
| WHEATLAND #2 | 98.9 | 81.7 | 86.0 | 54.6 | LARAMIE RIVER above MOUTH | 15 | 157 | 118 |
| NORTH PLATTE PROJ | 1062.1 | 975.7 | 1092.0 | 710.3 | NORTH PLATTE in WYOMING | 51 | 152 | 124 |
| KENDRICK PROJECT | 1201.7 | 1096.4 | 1053.0 | 779.5 | | | | |
| GLENDO PROJECT USERS | 183.2 | 129.1 | 155.0 | 157.6 | | | | |



*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

UPPER GREEN RIVER BASIN

MOUNTAIN SNOWPACK*



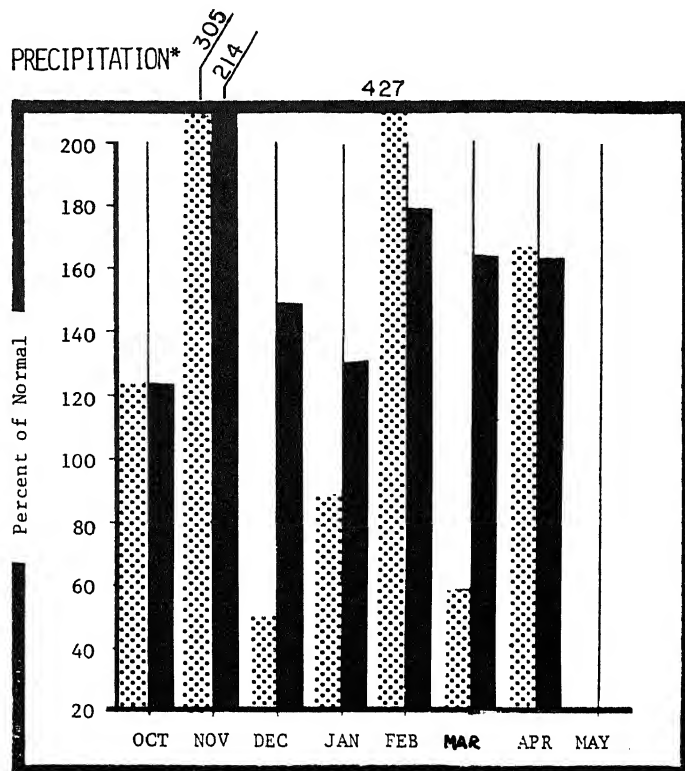
*Based on selected stations

Maximum 
Minimum 


Average 


Current 

PRECIPITATION*



*Based on selected stations

Monthly precipitation 

Year to date precipitation 

WATER SUPPLY OUTLOOK:

This basin's water users can expect streamflows as much as 46% above average. Snowpack accumulation is nearly 51% above normal and is 157% greater than last year. Most of the low elevation snow in the basin is gone, with snowmelt beginning at some of the higher elevations. April precipitation was much above average at 168%. Water users should have abundant water to meet their needs.

For more information contact your local Soil Conservation Service office.

UPPER GREEN RIVER BASIN

STREAMFLOW FORECASTS

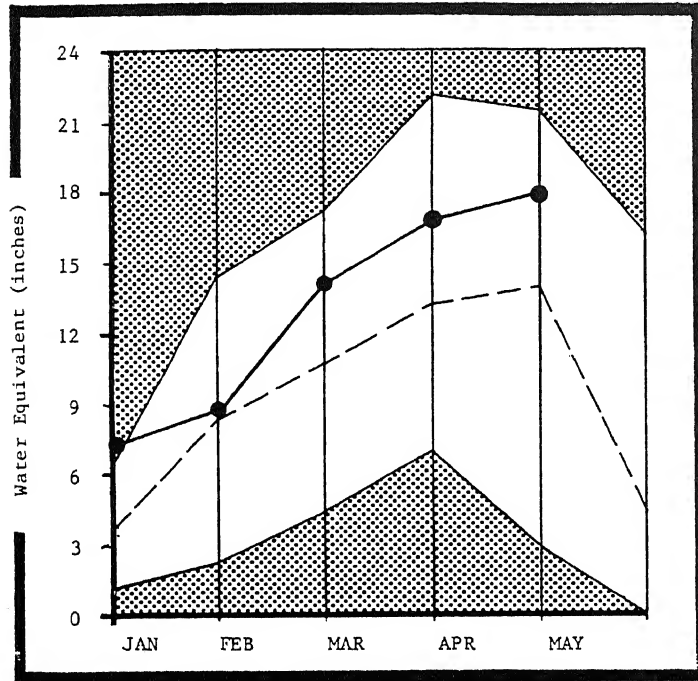
| FORECAST POINT | FORECAST PERIOD | 20 YR. AVE. (1000AF) | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVE.) | REAS. MAX. (% AVE.) | REAS. MIN. (% AVE.) | PEAK FLOW (CFS) | PEAK DATE | LOW FLOW (CFS) |
|----------------------------------|-----------------|----------------------|------------------------|------------------------|---------------------|---------------------|-----------------|-----------|----------------|
| GREEN RIVER near Warren Bridge | APR-SEP | 326.0 | 475.0 | 145 | 160 | 132 | | | |
| FONTENELLE RESERVOIR Inflow | APR-JUL | 869.0 | 1350.0 | 155 | 169 | 141 | | | |
| LaBARGE CREEK at LaBarge Meadows | APR-SEP | 8.9 | 13.0 | 146 | 169 | 124 | | | |
| BIG SANDY RIVER near Big Sandy | APR-SEP | 61.0 | 93.0 | 152 | 172 | 133 | 1250 | | |

| RESERVOIR STORAGE (1000AF) | | | | | WATERSHED SNOWPACK ANALYSIS | | |
|----------------------------|------------------|------------------------------|--------------|---------|-----------------------------|-------------------|----------------------|
| RESERVOIR | USEABLE CAPACITY | XX USEABLE STORAGE THIS YEAR | XX LAST YEAR | XX AVE. | WATERSHED | NO. COURSES AVE.D | THIS YEAR / LAST YR. |
| BIG SANDY | | NO REPORT | | | GREEN above WARREN BRIDGE | 4 | 286 |
| EDEN | | NO REPORT | | | UPPER GREEN (West Side) | 6 | 199 |
| FLAMING GORGE | 3749.0 | 2939.0 | 3108.7 | --- | NEWFORK LAKE | 3 | 278 |
| FONTENELLE | | NO REPORT | | | BIG SANDY/EDEN VALLEY | 2 | 267 |
| | | | | | GREEN above FONTENELLE | 11 | 234 |





*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

LOWER GREEN RIVER BASIN

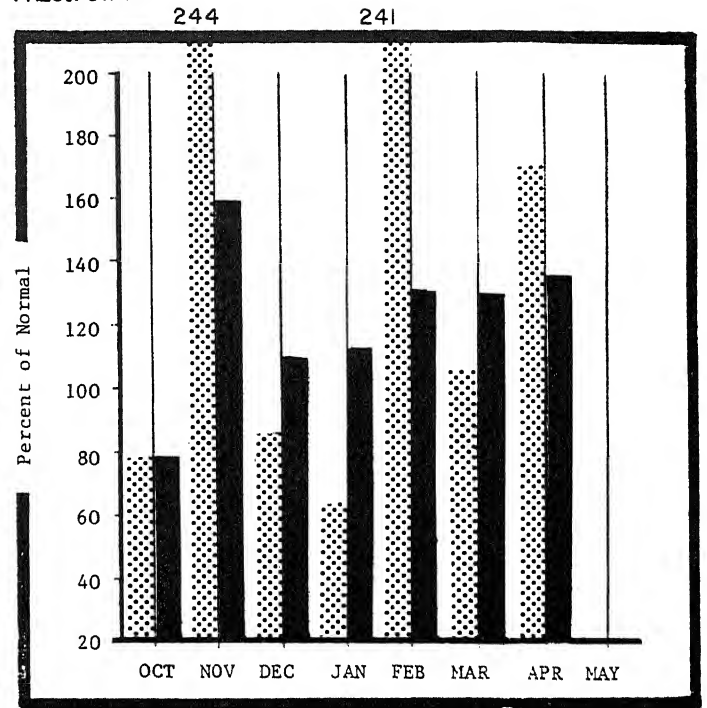
MOUNTAIN SNOWPACK*



*Based on selected stations

Maximum  Average 
 Minimum  Current 

PRECIPITATION*



*Based on selected stations

Monthly precipitation  Year to date precipitation 

LOWER GREEN RIVER BASIN

STREAMFLOW FORECASTS

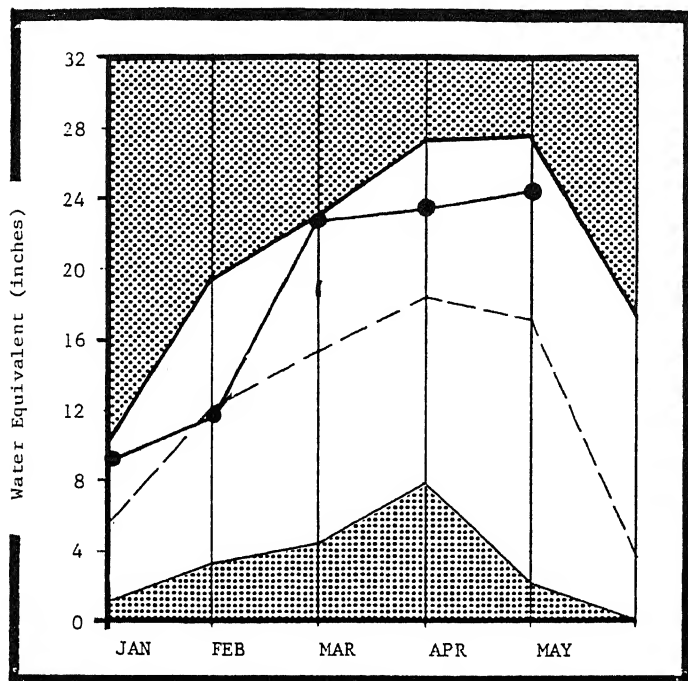
| FORECAST POINT | FORECAST PERIOD | 20 YR. AVE. (1000AF) | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVE.) | REAS. MAX. (% AVE.) | REAS. MIN. (% AVE.) | PEAK FLOW (CFS) | PEAK DATE | LOW FLOW (CFS) | LOW DATE |
|------------------------------------|-----------------|----------------------|------------------------|------------------------|---------------------|---------------------|-----------------|-----------|----------------|----------|
| FONTENELLE RESERVOIR Inflow | APR-JUL | 869.0 | 1350.0 | 155 | 169 | 141 | | | | |
| HAMS FORK near Frontier | APR-SEP | 71.3 | 101.0 | 141 | 161 | 122 | | | | |
| GREEN RIVER near Green River, WY x | APR-SEP | 1079.0 | 1675.0 | 155 | 175 | 135 | | | | |
| BLACKS FORK near Milburne, UT | APR-JUL | 89.9 | 125.0 | 139 | 164 | 117 | | | | |
| HENRYS FORK near Manila, UT | APR-SEP | 48.0 | 72.0 | 150 | 179 | 127 | | | | |
| FLAMING GORGE Inflow x | APR-JUL | 1248.0 | 2050.0 | 164 | 182 | 148 | | | | |

| RESERVOIR STORAGE (1000AF) | | | | | WATERSHED SNOWPACK ANALYSIS | | | |
|----------------------------|------------------|------------------------------|------------------------------|---------|-----------------------------|-------------------|-----------------------|-----------|
| RESERVOIR | USEABLE CAPACITY | XX USEABLE STORAGE THIS YEAR | XX USEABLE STORAGE LAST YEAR | XX AVE. | WATERSHED | NO. COURSES AVE.D | THIS YEAR AS LAST YR. | AS 1 AVE. |
| FONTENELLE | | NO REPORT | | | HAMS FORK RIVER | 3 | 206 | 147 |
| FLAMING GORGE | 3749.0 | 2939.0 | 3108.7 | | BLACKS FORK | 4 | 160 | 116 |
| VIVA NAUGHTON RES | 42.4 | 18.0 | 21.4 | 26.2 | HENRYS FORK | 1 | 179 | 111 |
| | | | | | GREEN above FLAMING GORGE | 13 | 230 | 147 |

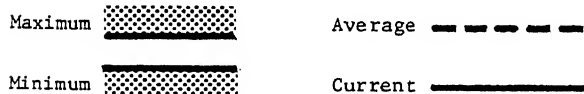
xCorrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

UPPER BEAR RIVER BASIN

MOUNTAIN SNOWPACK*

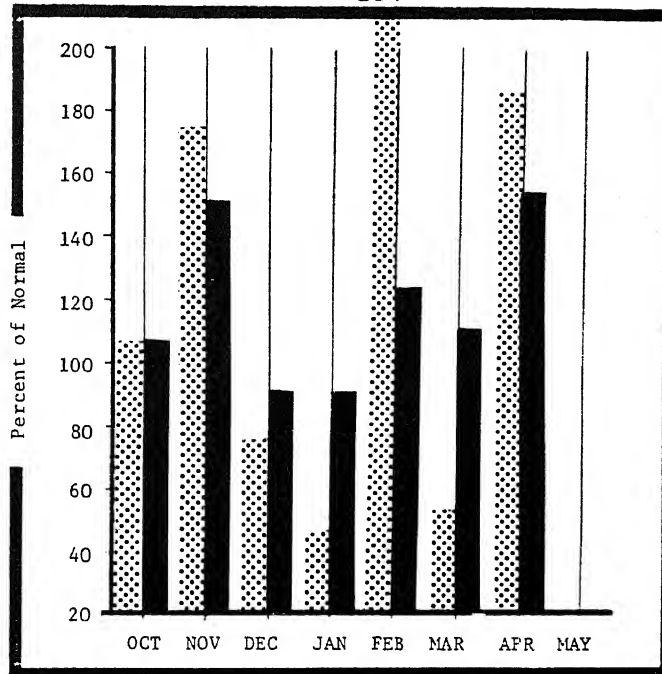


*Based on selected stations



PRECIPITATION*

284



*Based on selected stations



WATER SUPPLY OUTLOOK:

Water users in this basin can expect abundant water supplies this spring and summer. Flows are forecast to be much above average, in some drainages by as much as 104%. Snowpack accumulation is about 37% above normal, and is 105% above last year. Precipitation during the month was 83% above average, with the year to date accumulation being 19% above average.

For more information contact your local Soil Conservation Service office.

UPPER BEAR RIVER BASIN

STREAMFLOW FORECASTS

| FORECAST POINT | FORECAST PERIOD | 20 YR. AVE. (1000AF) | MOST PROBABLE (1000AF) | MOST PROBABLE (% AVE.) | REAC. MAX. (% AVE.) | REAC. MIN. (% AVE.) | REAC. MAX. (AF) | REAC. MIN. (AF) | REAC. MAX. (CFS) | REAC. MIN. (CFS) |
|---------------------------------|-----------------|----------------------|------------------------|------------------------|---------------------|---------------------|-----------------|-----------------|------------------|------------------|
| SMITHS FORK near Border | APR-SEP | 119.0 | 145.0 | 138 | 159 | 118 | | | | |
| THOMAS FORK near State line | APR-SEP | 35.1 | 55.0 | 156 | 177 | 112 | | | | |
| BEAR RIVER at Utah-Wyoming line | MAY-JUL | 105.0 | 150.0 | 142 | 157 | 111 | | | | |
| BEAR RIVER near Woodruff, UT | MAY-JUL | 116.0 | 162.0 | 139 | 169 | 121 | | | | |
| BEAR RIVER near Randolph, UT | MAY-JUL | 82.0 | 168.0 | 204 | 256 | 124 | | | | |

| RESERVOIR STORAGE | | (1000AF) | | WATERSHED STORAGE (1000AF) | |
|-------------------|------------------|---------------------------|--------------------------------|----------------------------|--------------|
| RESERVOIR | USEABLE CAPACITY | USEABLE STORAGE THIS YEAR | USEABLE STORAGE LAST YEAR AVE. | WATERSHED | 1961-80 AVE. |
| WOODRUFF NARROWS | 55.8 | 57.7 | 55.8 | UPPER BEAR RIVER | 136 |
| | | | | SMITHS & THOMAS FORKS | 144 |
| | | | | BEAR RIVER abv IDAHO line | 119 |

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

WYOMING

WATER SUPPLY OUTLOOK

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